

Intel Xeon w3-2435 processor 3.1 GHz 22.5 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
PK8071305128700

Product name : w3-2435

PK8071305128700

Intel Xeon w3-2435. Processor family: Intel Xeon W, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Quad-channel, Maximum internal memory supported by processor: 2 TB. Market segment: Workstation, Use conditions: Workstation, Supported instruction sets: SSE4.1, AMX, SSE4.2, AVX 2.0, AVX-512. Intel® Turbo Boost Max Technology 3.0 frequency: 4.5 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.3 GHz, Intel® QuickAssist Technology (QAT): 0 default devices. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Control-flow Enforcement Technology (CET)	✓
Processor model *	w3-2435	Intel® Platform Firmware Resilience Support	✓
Processor base frequency *	3.1 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel Xeon W	Intel® Active Management Technology (Intel® AMT)	✓
Processor cores *	8	Intel® OS Guard	✓
Processor socket *	LGA 4677 (Socket E)	Intel Software Guard Extensions (Intel SGX)	✗
Processor threads	16	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Performance cores	8	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	4.5 GHz	Intel Turbo Boost Max Technology 3.0	✓
Processor cache	22.5 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache type	Smart Cache	Intel® Boot Guard	✓
Box *	✗	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor base power	165 W	Intel® Resource Director Technology (Intel® RDT)	✗
Maximum turbo power	198 W	Mode-based Execute Control (MBE)	✓
Stepping	S3	Intel® Optane™ DC Persistent Memory Supported	✗
Bus type	DMI4	Intel® vPro™ Platform Eligibility	✓
Processor codename	Sapphire Rapids	Intel® One-Click Recovery	✗
Processor ARK ID	233480	Intel® Remote Platform Erase (RPE)	✗
Memory		Intel® Virtualization Technology with Redirect Protection (VT-rp)	✓
Maximum internal memory supported by processor	2 TB	Intel vPro® Enterprise Platform Eligibility	✓
Memory channels *	Quad-channel	Intel® Threat Detection Technology (TDT)	✗
ECC	✓	Intel® Total Memory Encryption - Multi Key	✗
Graphics		Intel® QuickAssist Software Acceleration	✗
On-board graphics card *	✗	Intel® QuickAssist Technology (QAT)	0 default devices
Discrete graphics card *	✗	Intel® Dynamic Load Balancer (DLB)	0 default devices
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Workstation		
Use conditions	Workstation		
Maximum number of PCI Express lanes	64		
PCI Express slots version	5.0		
Supported instruction sets	SSE4.1, AMX, SSE4.2, AVX 2.0, AVX-512		
Scalability	1S		

Features		Processor special features	
CPU configuration (max)	1	Intel® Data Streaming Accelerator (DSA)	1 default devices
Embedded options available	✘	Intel® In-memory Analytics Accelerator (IAA)	0 default devices
Direct Media Interface (DMI) Revision	4.0	Intel® Advanced Matrix Extensions (AMX)	✓
Export Control Classification Number (ECCN)	5A992C	Operational conditions	
Commodity Classification Automated Tracking System (CCATS)	G180729	Tcase	70 °C
		DTS Max	94 °C
Processor special features		Technical details	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Launch date	Q1'23
Intel® Turbo Boost Technology	2.0	Status	Launched
Intel® AES New Instructions (Intel® AES-NI)	✓	Memory speed (max)	4400 MHz
Enhanced Intel SpeedStep Technology	✓	Package carrier	E1B
Intel Trusted Execution Technology	✓	Logistics data	
Intel® Speed Shift Technology	✓	Harmonized System (HS) code	8542310001
Intel® Turbo Boost Max Technology 3.0 frequency	4.5 GHz	Weight & dimensions	
Intel® Turbo Boost Technology 2.0 frequency	4.3 GHz	Processor package size	77.5 x 56.5 mm
Intel® Transactional Synchronization Extensions	✓	Other features	
Intel® Total Memory Encryption	✓	Maximum internal memory	2 TB



8592978444709

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.